

# SUN-SASH

**air-control louvred windows**

*... America's Largest Selling Lowest-Cost Louvred Window!*





"indoor or outdoor climate at your fingertips"

## description

Patented, union-made, SUN-SASH consists of a pair of galvanized steel uprights with from three to fourteen 6" steel pockets on each, depending upon the height. A wood stop is used at head and sill for sealing. The left-hand upright (looking out the window) has a single operating handle below the gravity lock, which, when pulled down, rotates all the pockets simultaneously through a 105° turn. SUN-SASH stays open in any position to which it has been adjusted. Inexpensive crystal or sheet glass is used, 3/16" (or 7/32") thick, 6" high, and any width up to 40", depending upon the inside dimensions of the window. By closing or opening the clips, double strength or 1/4" glass may also be used. Glass must be secured locally.

## costs

**OF SUPERIOR QUALITY**, SUN-SASH is **LOW** in cost! Competitive wood or steel sash costs over 50% more than SUN-SASH on a square-foot basis. Compare the initial and installation prices with any window, and you will specify SUN-SASH.

## SUN-SASH features:

**PERMANENT DURABILITY** is assured with SUN-SASH windows . . . They are skillfully engineered of heavy galvanized steel, with heavy bronze bearings. No oiling needed . . . no breakdowns. Time-Tested by over 20 years in all weathers . . . Over six-million installations in use today!

**ALWAYS GOOD-LOOKING** . . . SUN-SASH blends well with every type of architectural design. Different kinds, colors of glass can be used for added harmony. Wood, steel, plastic, or composition may be substituted for glass.

**CLARITY OF VISION** is achieved by SUN-SASH, freedom from all obstructions, crossbars. Allows maximum entry of light and air.

**COMPLETE AIR CONTROL** . . . 100% ventilation . . . Breezes can be deflected up or down at any angle for thorough circulation. Can be closed off when so desired.

**OPERATING EASE:** Dual operating rods allow maximum leverage: louvres move at a touch . . . remain perfectly balanced at adjusted angle . . . despite wind. **NO MORE** hard-to-open windows!

**WEATHER-TITE SEALING** is built into SUN-SASH with Patented Side-Seal.

**RIDGED CHANNEL**, an integral part of the fitting which meshes with embossed louvre-pocket to form a complete weather-seal! When locked, glass louvres overlap 1/2" under strong pressure . . . Keep bad weather out!

**MINIMUM CARE** is necessary with SUN-SASH . . . Large 6" louvres are easy to clean from the inside . . . never get foggy when kept slightly open. Broken panes can be replaced very simply by sliding in new glass, bending over louvre clips . . . no putty required! There's no friction between glass pockets and uprights . . . won't wear out!

**SIMPLE INSTALLATION** . . . SUN-SASH goes right up in a matter of minutes! Sizes to fit any opening. Screens or stormsash can be fitted to the window, but are not supplied.

**SELF-MULLIONING** . . . SUN-SASH fittings can be bolted directly together to form their own mullions. Patented SUN-SASH mullion clips fasten to head and sill sections.

**PRE-POSITIONED STOPS** can be adjusted by placing top and bottom stops against side-ridges for perfect position. Stops or stool can be correctly installed before glazing.

**VERTICAL LOUVRES** are handsome, easy to install by mounting the fittings at top and bottom of opening . . . rather than from side to side.

**AUTOMATIC LOCK** is simple and foolproof for your protection. When SUN-SASH is closed, it locks itself.

**versatile SUN-SASH is at home everywhere!**

### residential



SUN-SASH windows make bright new rooms of porches, patios, breezeways. Fine for partitions, too!

### residential



For airy, sun-filled kitchens, free of heat and odors . . . For freshness and beauty throughout the modern home!

### commercial



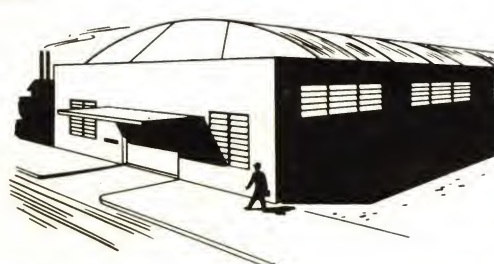
SUN-SASH means handsome, efficient offices, happier personnel. . . . Sheer simplicity in cleaning, operation!

### institutional



SUN-SASH is used widely and preferred in schools and hospitals for their 'all-round' advantages.

### industrial



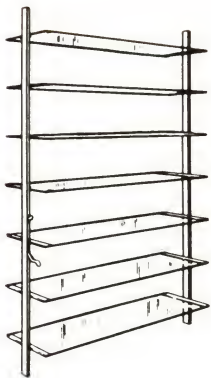
More light; fresh-air without drafts; means safety, health for factory workers. Low-costs balance building budgets.



105° arc

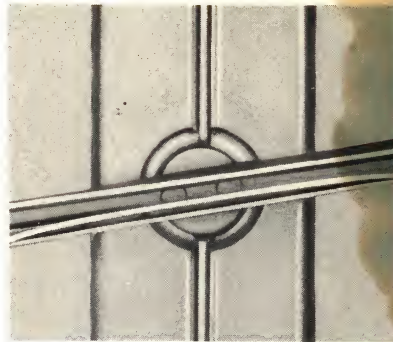
"Side-Seal" window hardware

standard sizes

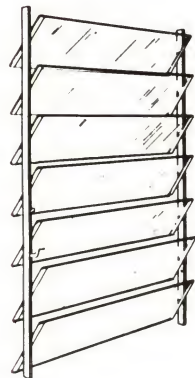


**fully opened**

For hot summer nights you get 100% ventilation instead of the 50% obtained with ordinary windows.

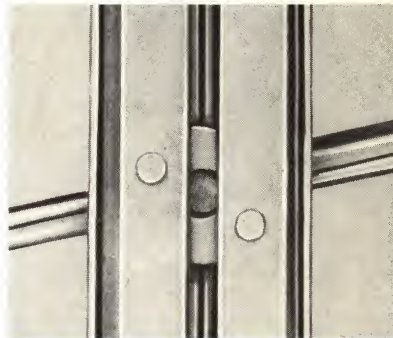


Ridged channel . . . the ridge meshes with the embossed louvred pockets to form tight weather seal. No light shows through side ridge.



**partially opened**

Amount of fresh air is controlled . . . even during rain. An ordinary flow of fresh air eliminates drafts.

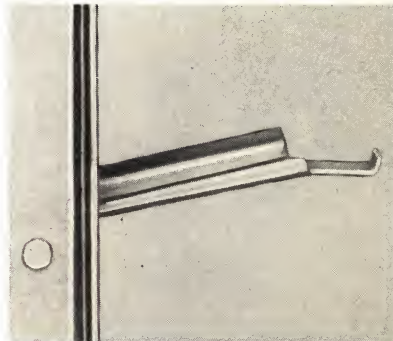


Large bronze bearings . . . that insure trouble-free easy operation. These large bearings add longer life to your windows—no further maintenance required.



**fully closed**

Warm air is sealed tight by patented lock which also secures windows so that they cannot be opened from the outside.

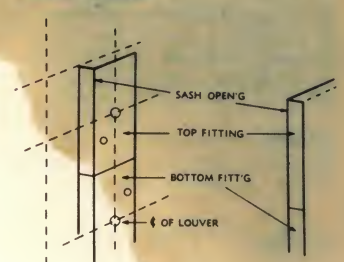


Embossed louvre pockets . . . that mesh with the ridged channel. When all glass louvres are in the closed position, a cam action seals glass against glass under terrific pressure.

| no. of louvers | height  | shipping weight lbs. |
|----------------|---------|----------------------|
| 3              | 1'- 5½" | 5                    |
| 4              | 1'-11"  | 6                    |
| 5              | 2'- 4½" | 7½                   |
| 6              | 2'-10"  | 8½                   |
| 7              | 3'- 3½" | 10                   |
| 8              | 3'- 9"  | 11                   |
| 9              | 4'- 2½" | 12½                  |
| 10             | 4'- 8"  | 13¾                  |
| 11             | 5'- 1½" | 15                   |
| 12             | 5'- 7"  | 16                   |
| 13             | 6'- 0½" | 17½                  |
| 14             | 6'- 6"  | 19                   |

**mullions**

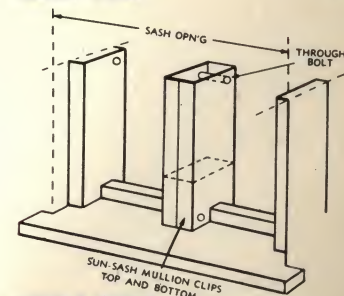
**double height**



**DOUBLE HEIGHT**

With jamb fittings butted over each other, cut 15/16" off the top of the bottom fitting or off the bottom of the top fitting to provide for glass overlap.

**double width**



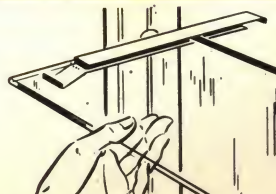
**DOUBLE WIDTH**

With center mullions of two (2) jamb fittings fastened back to back, use SUN-SASH mullion clips top and bottom to brace and anchor mullion.

**installation is easy and inexpensive**



1. Screw or nail SUN-SASH fittings to side of window frames.



2. Slide glass louvers in to rattle-proof spring-clip holders . . . in horizontal position.



3. Close end of clips over glass with pliers . . . blades held firmly in position.



4. Install ¾" stop top and bottom for tight fit when closed. (Window stool may be used for bottom stop.)



## specifications

### general

SUN-SASH Louvred Windows are sold by the SUN-SASH COMPANY, 38 Park Row, New York 38, New York, and by building supply and glass dealers throughout the United States and Panama.

### material

All members are special hot-dip, galvanized steel sections, having a shop-coat of paint in neutral color. Brass alloy bearings are used at all rotating points.

### construction

Riveted construction is used to fasten rotating 6-inch pockets to bearings. Pockets are slit on the lower side to provide a spring pressure grip on the individual panes of glass. An automatic gravity lock is located just above the operating handle on the left-hand upright.

### operation

All panes (louvres) open or close simultaneously by means of a single manually operated handle on the left-hand upright. When fully closed, the lock automatically engages. Panes overlap each other by  $\frac{1}{2}$ " in that position. They rotate through a maximum angle of  $105^\circ$  when the operating handle is pulled down, and the window is fully opened.

### screens or storm windows

Where required, screens or storm windows are mounted on the outside of the frame at least 3" from the center line of the SUN-SASH. Inside mounting is likewise at least 3" from the center line, and access to the operating handle is provided.

### glazing

Sheet or crystal glass  $\frac{3}{16}$ " thick ( $\frac{7}{32}$ " may be used) 6" high, and

in widths  $1\text{-}9/16$ " less than the frame opening is used. Glass should have the long edges roughed or seamed to remove sharpness. After the glass has been slid into the pockets, metal ends are bent over to effect a tight seal.

### erection

SUN-SASH fittings should be carefully installed square with the opening and plumb. Number 9,  $1\frac{1}{4}$ " or longer wood screws or rust-proofed nails are used for fastening SUN-SASH to wooden frames and mullions. With metal frames, suitable holes are drilled and tapped, and the fittings securely bolted or screwed in place.  $\frac{3}{4}$ " quarter round wood stops are placed at head and sill for sealing.

### painting

No further paint is required; however, the new SUN-SASH "Side-Seal" unit can easily be painted with ordinary paint to match woodwork. Will take up to three coats of paint.

### stainless steel

For a premium deluxe unit offered as a companion to the famous SUN-SASH galvanized steel window, the SUN-SASH STAINLESS STEEL louvred windows are available at a slight increase in prices. These STAINLESS STEEL louvred windows are particularly recommended for store fronts, interior partitions, or wherever a beautiful, highly polished finish is desired.

### specifications for stainless steel units

Pockets and channels are of 17% Chromium and 7% Nickel, 20 Gauge Stainless Steel, #1 Finish. Bearings are nickelplated bronze. Operating handle and lock are nickel-plated. Features the famous patented "Side-Seal" and the cam actuated "Pressure-Seal" of glass to glass.

## ordering instructions

### For existing wood or metal frames:

Measure exactly to nearest  $\frac{1}{8}$ ". Measure inside height, and select stock height SUN-SASH to match. Frames may be built up to equal SUN-SASH heights, or SUN-SASH cut down. Measure width of top and bottom of opening. If more than 40", divide into sections not exceeding 40" and insert 1" x 2" x 1" x 3" dressed center mullions to form sections. SUN-SASH may be mullioned together with  $\frac{3}{4}$ " long bolts and nuts or may be mounted on top of each other. Metal SUN-SASH spacers (available from the SUN-SASH Company) must be fastened to the top and bottom of the frame to keep the sash in position.

### Order SUN-SASH and glass

Glass panes  $\frac{3}{16}$ " thick ( $\frac{7}{32}$ " may be used), 6" high,

in lengths  $1\text{-}9/16$ " less than the measured frame opening must be used. The edges of the glass should be roughed (swiped or seamed) lengthwise to remove the sharpness. Your local glass dealer has the required equipment. Where low cost is of primary importance, this same result may be obtained by rubbing the edges several times with a soft stone held at a  $45^\circ$  angle. Order SUN-SASH by size number to correspond to the required height. This number indicates the number of louvres. Use #9 screws to fasten the sash to the frame.

**IMMEDIATE DELIVERY BY YOUR LOCAL  
BUILDING SUPPLY OR GLASS DEALER!**

**SUN-SASH** company

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